

Additional Resources to Help Your Community be Flood Ready













Your Flood-Ready Tool Kit

- Facts and Figures
- Helpful Guides
- Local Trainings
- Real Time Flood Data
- Maps
- Funding Sources
- People



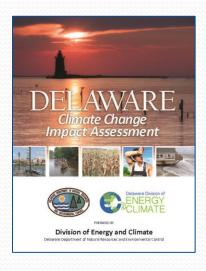




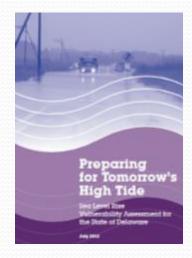




Facts and Figures for the Future



http://www.dnrec.delaware.gov/energy/ Pages/The-Delaware-Climate-Impact-Assessment.aspx



http://de.gov/slrva



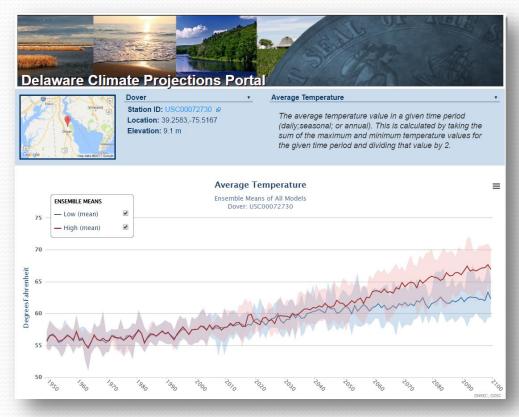






Future Temperature and Precipitation Trends

- Information resulting from climate model runs conducted for the Delaware Climate Change Impact Assessment
- Data visualization
- Data downloads



http://climate.udel.edu/declimate projections/









How To Info:

- DE Sea Grant Natural Hazard and Climate Change Adaptation Tool Kit
 - http://www.deseagrant.org
- Georgetown Law Adaptation tool kit
 - http://www.georgetownclimate.org/resources/adaptation
 -tool-kit-sea-level-rise-and-coastal-land-use
- Green Infrastructure Primer
 - http://de.gov/greeninfrastructure
- FEMA Guidance
 - www.Floodsmart.gov
- Live Trainings and Workshops
 - Delaware Coastal Training Program
 - Delaware Sea Grant
 - Floodplain Management Program













Real time and historic weather data @ DEOS

- Real time weather station data
- Historic weather station data
- Use for emergencies, assessments, planning, gardening and lots more!



www.deos.udel.edu



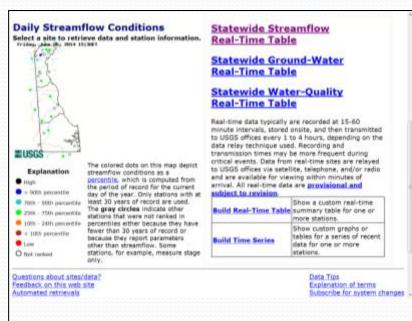






Real time and historic stream data - USGS

- Real time gauge data from streams and tidal rivers
 - Flood stage indicated
- Historic stream gauge data
- 32 sites statewide
- Use for emergencies, assessments, and planning



http://waterdata.usgs.gov/de/nwis/rt



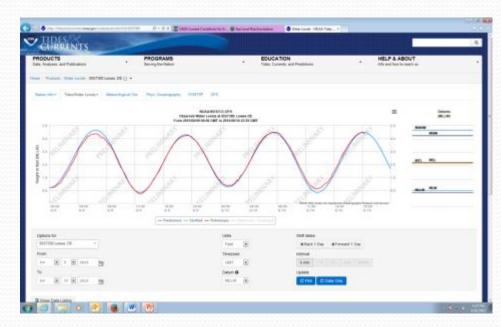






Real time and historic tide data - NOAA

- Tide predictions and observations for 2 sites
 - Lewes & Reedy Point
- Historic data available to download and view
- Use for planning, response, assessments



http://tidesandcurrents.noaa.gov



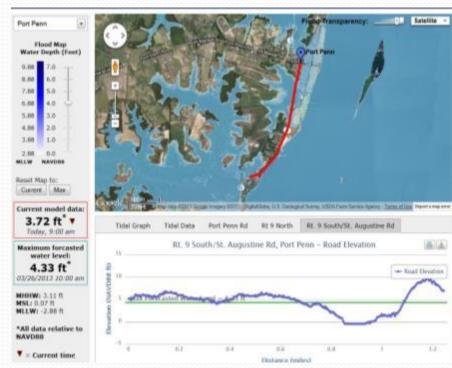






Mapping Tools – Delaware Coastal Flood Monitoring System

- Maps potential area of inundation based on tide predictions for next 48 hours
- Includes roadway profiles
- Available for DE Bay communities only
 - Work is underway to expand
- Use primarily for emergency preparedness and response



http://www.coastal-flood.udel.edu/



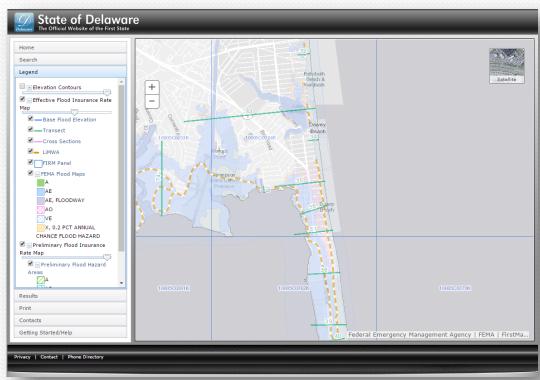






Delaware Flood Planning Tool from DNREC

- For floodplain managers, insurance agents, developers, real estate agents, engineers, surveyors, local planners and citizens
- Use to assess where floodplain regulations and insurance requirements apply
- Also used to show flood insurance rates areas



http://maps.dnrec.delaware.gov/Flood Planning/default.html



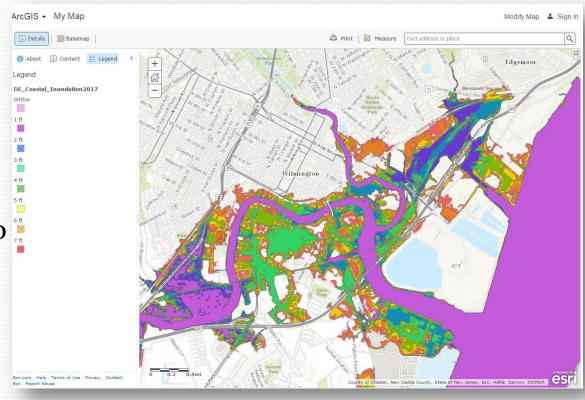






Mapping Tools – Delaware Inundation Maps

- Future-looking
- Depicts area that could be inundated at high tide under varying degrees of sea level rise
- You choose your preferred level to plan to
- For guidance only
 - NOT regulatory
- Use for planning and assessment











Show me the Money\$\$\$

- Coastal Management Partnership Program
 - http://de.gov/resilientcommunity
- Clean Water Infrastructure Grants
 - http://www.dnrec.delaware.gov/fab/Page s/default.aspx
- Unified Hazard Mitigation Assistance Grant Programs (FEMA)
 - http://www.vaemergency.gov/em-community/grants/HMAgrant2010
- DNREC Division of Energy and Climate Sustainable Community Grant (due June 2)
 - de.gov/sustainablecommunities











But Don't Forget these Tools!

Greg, Mike, Phil, Danielle, and Kelly are always available to help you be Flood Ready!











Questions?

Contact:

Kelly Valencik Coastal Training Program Coordinator

Delaware National Estuarine Research Reserve

kelly.valencik@state.de.us 302-739-6377















One last idea: Embrace it?

This New Orleans
Neighborhood Is
Fighting Flooding By
Welcoming It

"After Hurricane
Katrina devastated
New Orleans,
planners and
designers realized
they could protect the
city by reintegrating
water into the urban
landscape, instead of
pushing it out."



This "water garden" is designed to store 10 million gallons of rain in storms

• https://www.fastcompany.com/3o6873o/this-new-orleans-neighborhood-is-fighting-flooding-by-welcoming-it







